

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P190880

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5WQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10602.9 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

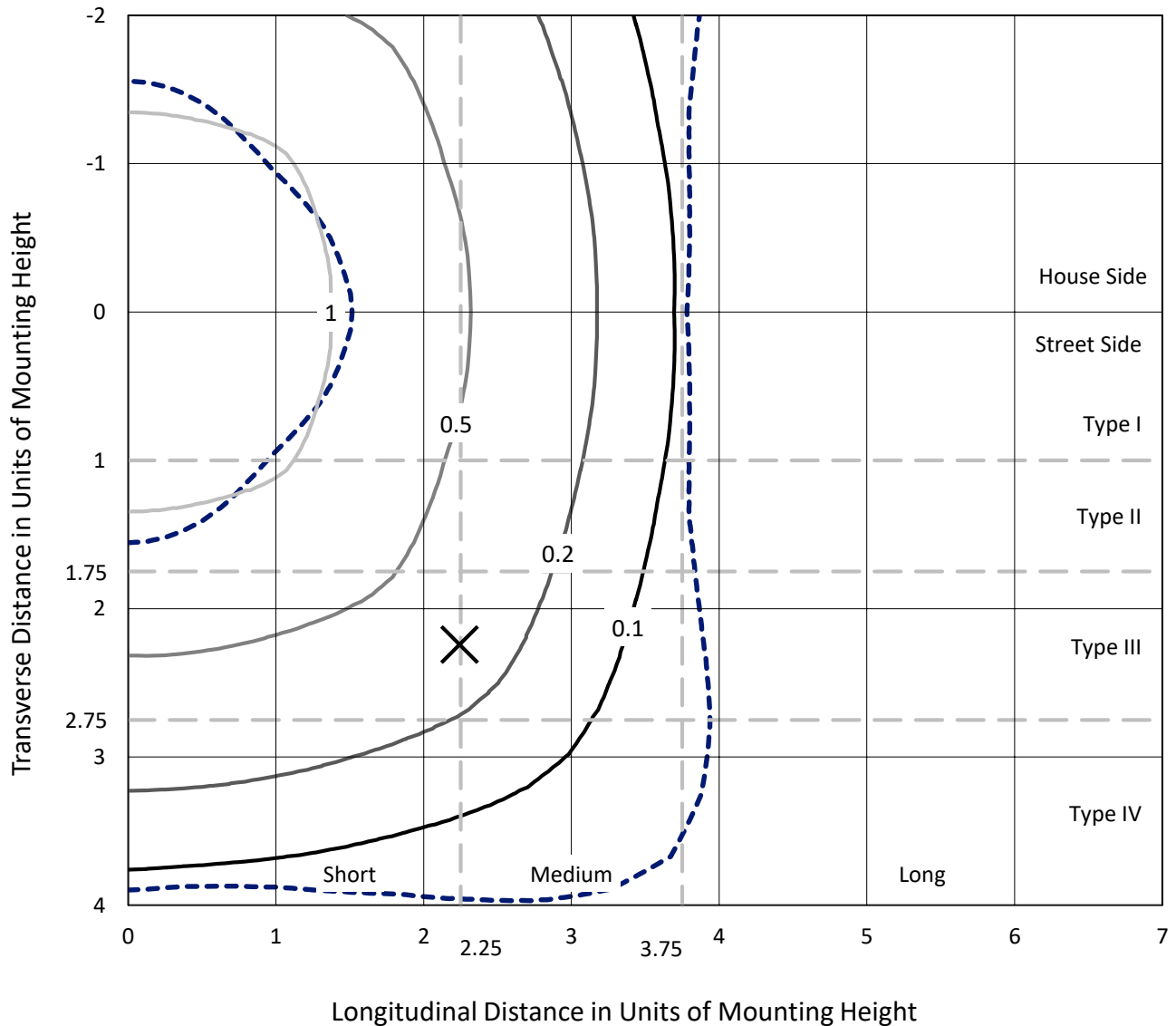
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

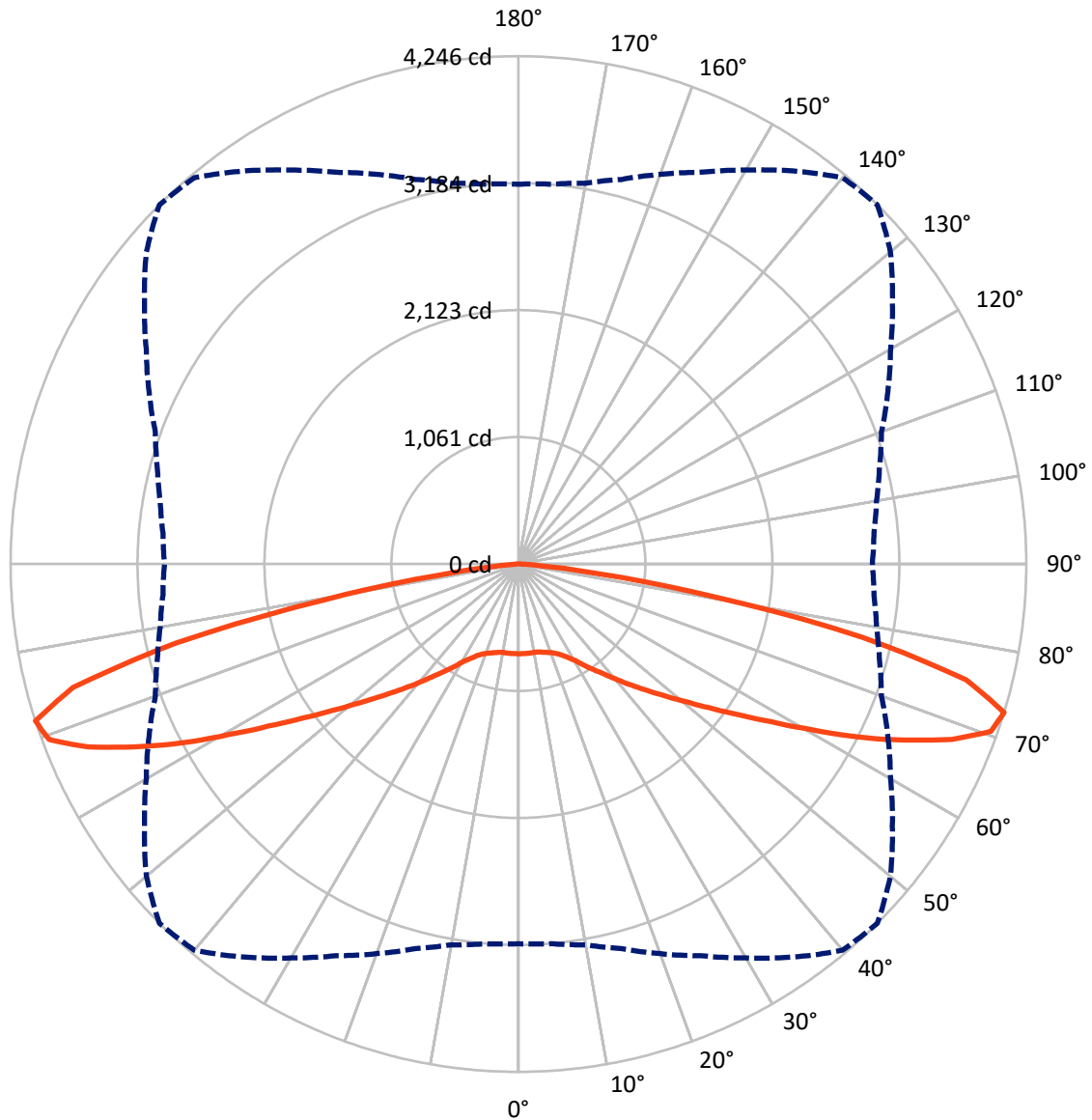
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5301.4	0.0	5301.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5301.4	0.0	5301.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10602.9	0.0	10602.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	0.7
10°-20°	217.8	2.1
20°-30°	397.9	3.8
30°-40°	686.1	6.5
40°-50°	1172.9	11.1
50°-60°	1901.1	17.9
60°-70°	3153.8	29.7
70°-80°	2777.7	26.2
80°-90°	224.0	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10602.9	100.0
0°-180°	10602.9	100.0



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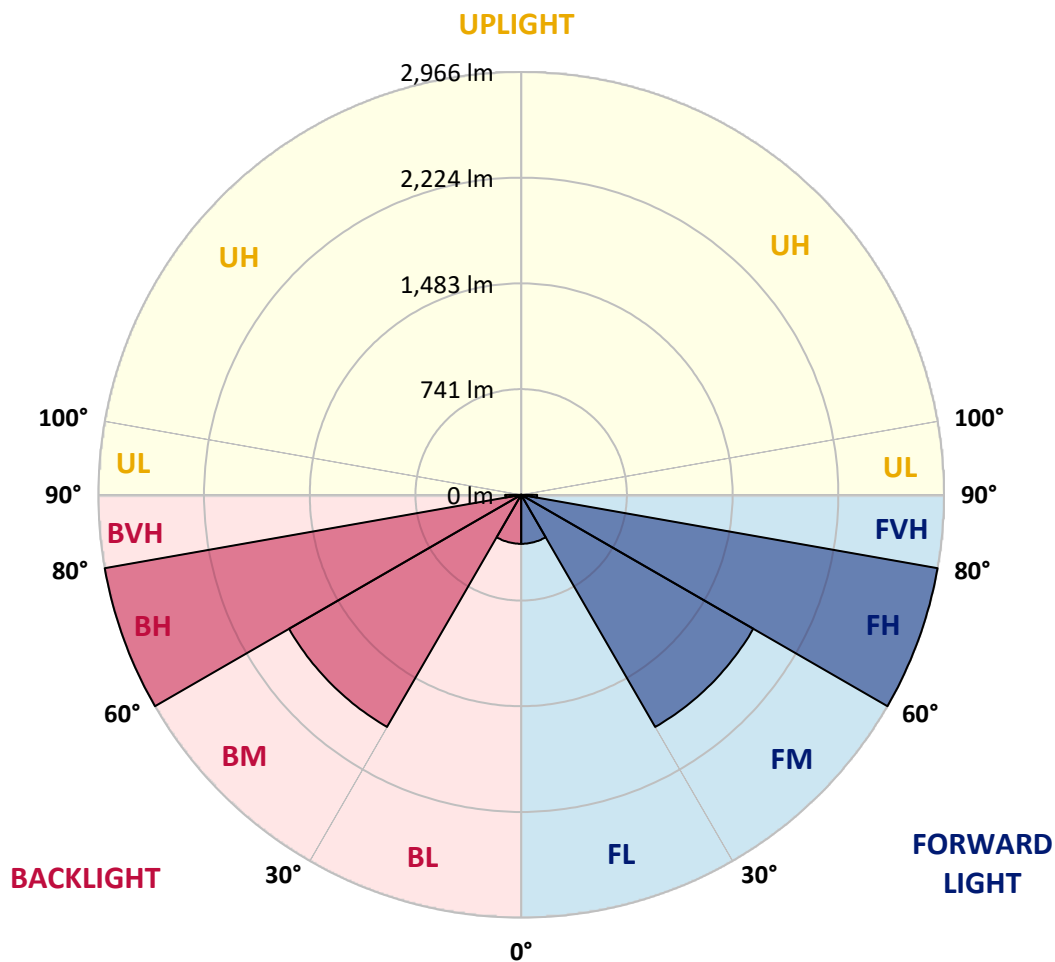
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.7	3.2			
FM	(30°-60°)	1880.0	17.7			
FH	(60°-80°)	2965.8	28.0			G2/5000
FVH	(80°-90°)	112.0	1.1			G2/225
BL	(0°-30°)	343.7	3.2	B1/500		
BM	(30°-60°)	1880.0	17.7	B2/2500		
BH	(60°-80°)	2965.8	28.0	B4/5000		G2/5000
BVH	(80°-90°)	112.0	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	750.8	751.4	751.9	751.4	751.4	750.8	750.3	750.8	750.3	749.4	749.9
5°	753.3	754.2	754.2	753.3	753.8	753.3	752.3	752.8	751.9	750.3	750.3
7.5°	756.2	756.7	756.7	755.8	756.2	755.2	754.2	753.8	752.8	750.8	749.4
10°	760.6	761.1	760.6	759.6	759.6	758.1	755.8	754.7	752.8	749.9	748.4
12.5°	765.5	765.9	765.5	764.5	763.9	761.6	759.6	758.1	756.7	754.2	751.9
15°	772.2	773.2	772.2	770.3	768.8	766.9	765.9	766.4	766.9	765.0	762.5
17.5°	784.9	785.4	783.9	779.6	777.5	775.6	775.6	776.6	778.1	777.1	774.7
20°	808.2	806.8	803.3	798.0	795.5	792.2	791.7	792.2	792.2	791.7	789.7
22.5°	837.4	836.5	832.1	825.2	821.8	819.9	817.0	814.6	814.1	812.6	810.7
25°	872.5	872.0	866.5	860.7	858.4	855.9	853.4	850.1	847.1	843.7	841.8
27.5°	917.2	915.2	907.5	904.5	901.1	899.7	896.2	892.3	890.0	885.6	883.1
30°	966.3	966.3	959.9	959.0	959.0	955.5	951.7	944.9	940.5	936.1	934.7
32.5°	1015.4	1015.9	1009.6	1011.5	1012.9	1015.4	1016.4	1013.9	1011.0	1010.6	1007.6
35°	1086.4	1084.4	1078.1	1079.6	1079.1	1078.6	1078.6	1083.9	1084.9	1085.9	1080.0
37.5°	1174.4	1174.4	1168.1	1168.1	1165.1	1162.3	1158.4	1161.8	1167.1	1168.6	1164.7
40°	1275.1	1278.5	1270.7	1270.2	1271.2	1261.9	1257.6	1262.9	1266.3	1272.1	1267.7
42.5°	1393.8	1391.3	1383.5	1382.5	1377.2	1374.3	1370.4	1374.7	1380.2	1384.1	1385.5
45°	1507.5	1505.6	1496.9	1496.9	1491.5	1489.0	1491.0	1498.3	1500.8	1506.1	1511.4
47.5°	1619.8	1617.4	1611.6	1614.0	1614.5	1618.9	1625.3	1632.0	1638.9	1646.1	1648.6
50°	1734.6	1735.1	1728.8	1734.6	1741.9	1754.1	1771.1	1782.3	1796.4	1805.6	1808.6
52.5°	1839.2	1841.1	1848.0	1861.6	1876.2	1900.0	1929.2	1956.4	1979.7	1995.3	1994.3
55°	1964.7	1967.5	1984.1	2007.4	2031.3	2067.3	2110.6	2158.7	2197.6	2220.0	2205.9
57.5°	2125.2	2131.4	2149.9	2181.5	2217.0	2263.7	2323.0	2395.5	2455.8	2486.0	2463.2
60°	2345.4	2349.3	2371.7	2406.7	2449.5	2507.4	2586.6	2683.9	2769.0	2808.9	2782.6
62.5°	2635.7	2643.0	2661.0	2696.5	2740.3	2806.0	2902.7	3024.4	3130.3	3185.8	3126.4
65°	2982.5	3005.8	3020.9	3056.9	3097.7	3167.3	3268.4	3398.8	3512.5	3549.0	3480.5
67.5°	3325.8	3346.3	3372.5	3413.8	3455.1	3533.5	3627.3	3753.7	3878.7	3911.8	3805.3
70°	3476.1	3487.8	3528.6	3585.0	3664.3	3756.7	3865.1	4007.1	4161.8	4189.0	4053.9
72.5°	3175.0	3186.7	3232.4	3328.3	3466.4	3613.3	3802.4	4011.0	4215.3	4245.9	4059.7
75°	2401.4	2382.4	2450.0	2576.9	2763.2	2967.9	3232.4	3531.5	3826.7	3865.1	3642.9
77.5°	1241.0	1238.6	1289.6	1447.3	1669.5	1902.4	2193.7	2531.7	2820.6	2937.3	2756.3
80°	349.6	353.5	377.9	456.1	585.9	754.2	981.8	1298.4	1534.7	1655.3	1554.2
82.5°	137.2	147.8	157.1	171.7	188.7	213.5	285.0	424.0	569.0	679.9	556.8
85°	49.1	52.5	74.4	88.0	89.5	94.3	107.5	125.5	151.2	180.4	148.3
87.5°	18.5	20.5	23.8	39.4	38.9	35.5	43.3	45.2	34.1	31.1	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	748.9	749.4	749.4	749.9	750.3	750.3	751.4	751.4
5°	749.4	749.4	748.4	748.9	748.4	748.4	748.9	748.9
7.5°	748.4	748.0	747.0	746.4	745.5	745.5	745.5	745.5
10°	747.0	746.4	745.5	745.0	744.5	744.5	744.5	744.5
12.5°	750.8	749.4	748.4	748.0	748.0	748.0	748.0	748.0
15°	761.1	757.7	755.2	755.2	755.8	756.7	756.7	757.7
17.5°	773.7	769.8	767.4	765.5	766.4	767.8	768.8	769.8
20°	788.8	786.9	783.5	781.5	781.5	783.5	784.4	784.9
22.5°	809.7	808.2	806.8	804.3	804.3	805.3	807.2	807.2
25°	840.9	839.8	838.8	836.9	836.5	836.5	837.4	838.4
27.5°	879.7	880.2	879.2	878.7	877.3	876.8	878.3	877.8
30°	931.7	934.2	936.6	934.7	932.2	930.8	929.4	927.4
32.5°	1002.3	999.3	997.4	994.0	989.6	985.7	982.9	979.4
35°	1068.9	1064.1	1062.1	1065.0	1064.5	1062.1	1058.7	1055.8
37.5°	1150.6	1149.6	1150.6	1155.9	1155.0	1157.4	1150.6	1150.1
40°	1253.7	1254.6	1261.5	1267.7	1271.2	1274.6	1270.7	1266.8
42.5°	1373.3	1372.8	1375.3	1384.1	1389.9	1393.8	1385.5	1384.5
45°	1499.7	1496.4	1498.3	1505.6	1511.4	1515.8	1506.6	1506.6
47.5°	1638.9	1633.0	1626.7	1635.0	1638.4	1641.2	1634.0	1631.5
50°	1793.9	1781.8	1768.2	1771.5	1771.5	1770.6	1761.4	1760.9
52.5°	1971.9	1949.5	1924.8	1915.6	1910.2	1904.3	1888.3	1880.5
55°	2176.6	2143.1	2104.2	2080.4	2067.8	2051.7	2024.9	2017.7
57.5°	2415.9	2363.4	2296.3	2267.2	2238.9	2212.6	2183.0	2174.7
60°	2699.5	2622.1	2533.1	2479.1	2448.5	2423.3	2392.6	2391.1
62.5°	3015.6	2893.5	2792.9	2744.2	2721.9	2699.5	2670.3	2674.2
65°	3337.0	3209.6	3115.3	3075.8	3054.9	3036.4	3007.3	3011.7
67.5°	3654.1	3536.9	3433.3	3392.9	3369.6	3346.3	3320.0	3324.4
70°	3881.7	3736.2	3619.5	3530.1	3474.1	3410.9	3370.1	3359.9
72.5°	3816.5	3592.3	3407.0	3229.6	3125.4	3040.8	2983.4	2958.7
75°	3303.0	2996.6	2758.3	2540.4	2417.8	2318.2	2245.8	2200.5
77.5°	2452.9	2108.6	1827.0	1576.1	1377.7	1244.4	1150.6	1089.9
80°	1342.7	1021.2	746.4	524.7	385.7	320.5	283.1	265.0
82.5°	418.2	269.9	198.9	171.7	159.5	152.7	141.5	123.5
85°	133.3	116.7	108.4	103.6	98.7	86.0	59.3	54.0
87.5°	51.6	53.0	52.5	49.6	50.5	36.5	29.2	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)